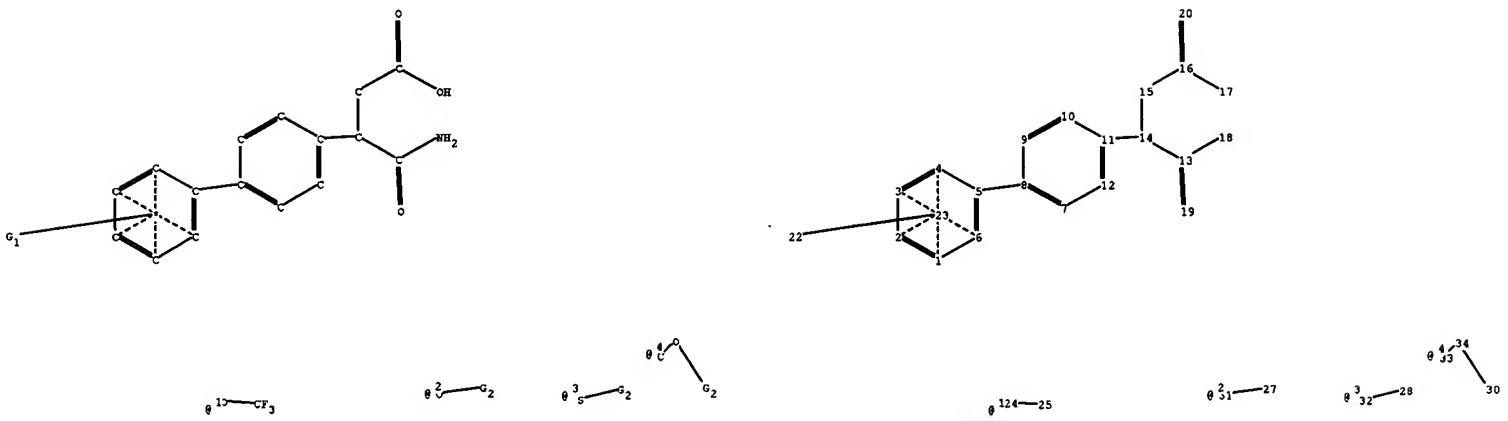
C:\Program Files\Stnexp\Queries\2007 cases\10569812\Formula(Ia) cl5.str



chain nodes :
13 14 15 16 17 18 19 20 22 24 25 27 28 30 31 32 33 34
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
5-8 11-14 13-14 13-18 13-19 14-15 15-16 16-17 16-20 24-25 27-31 28-32 30-34 33-34
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
13-18 13-19 27-31 28-32 30-34 33-34
exact bonds :
5-8 11-14 13-14 14-15 15-16 24-25
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 16-17 16-20

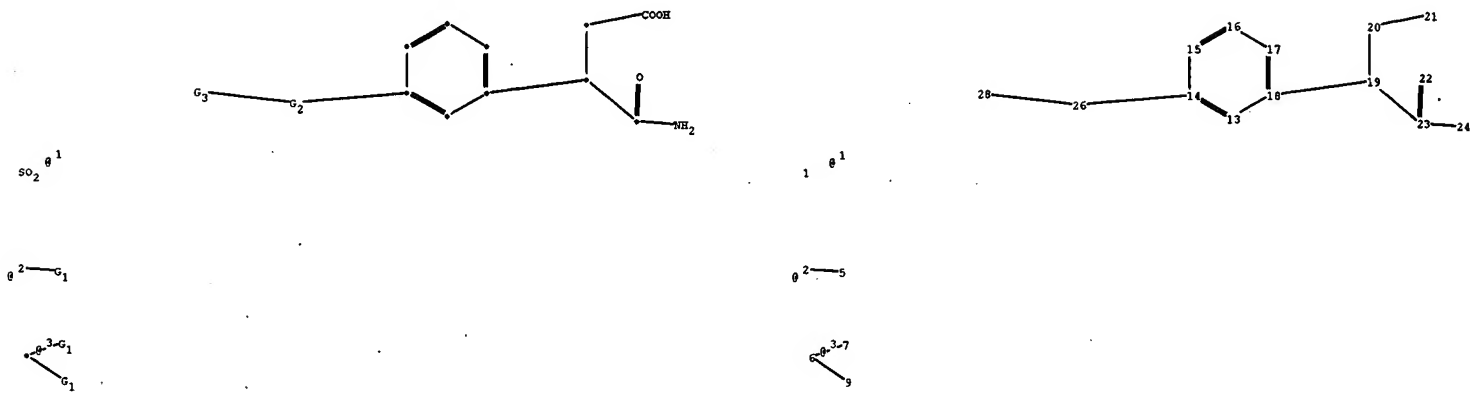
G1:H,X,CN,NO2,[*1],[*2],[*3],[*4]

G2:H,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 22:CLASS 23:Atom 24:CLASS

25:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS

C:\Program Files\Stnexp\Queries\2007 cases\10569812\updated search - claim 1 generic.str



chain nodes :
1 2 5 6 7 9 19 20 21 22 23 24 26 28
ring nodes :
13 14 15 16 17 18
chain bonds :
2-5 6-7 6-9 14-26 18-19 19-20 19-23 20-21 22-23 23-24 26-28
ring bonds :
13-14 13-18 14-15 15-16 16-17 17-18
exact/norm bonds :
2-5 6-7 6-9 14-26 22-23 23-24 26-28
exact bonds :
18-19 19-20 19-23 20-21
normalized bonds :
13-14 13-18 14-15 15-16 16-17 17-18

G1:H,CH3,CH2,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph,Cy

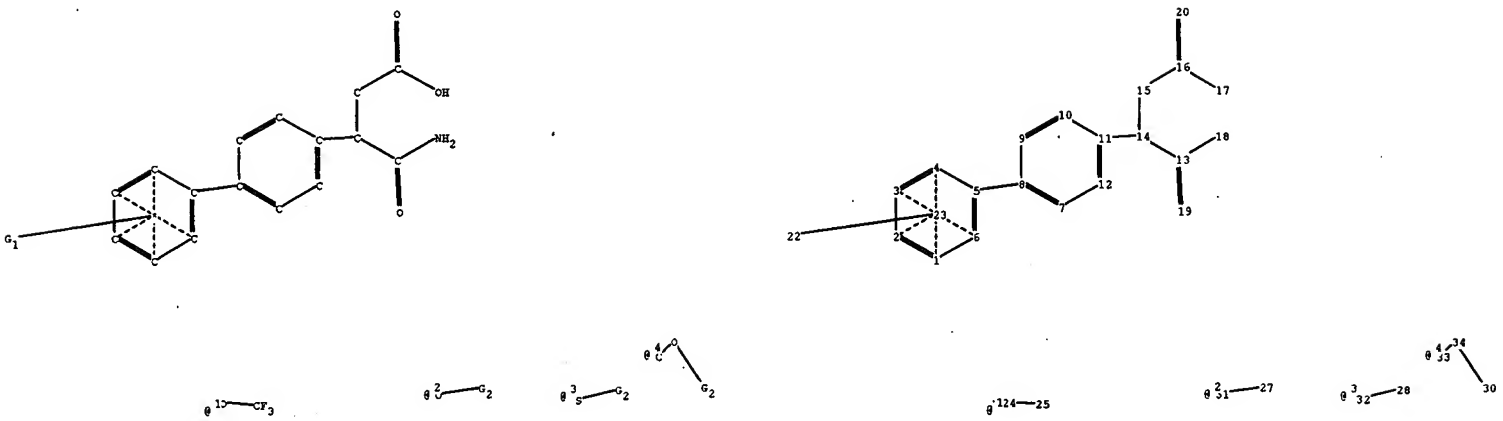
G2:CH2,O,S,[*1],[*2],[*3]

G3:Cb,Cy,Hy,Ak

Match level :

1:CLASS 2:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 26:CLASS 28:CLASS

C:\Program Files\Stnexp\Queries\2007 cases\10569812\Formula(la) cl5.str



chain nodes :
13 14 15 16 17 18 19 20 22 24 25 27 28 30 31 32 33 34
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
5-8 11-14 13-14 13-18 13-19 14-15 15-16 16-17 16-20 24-25 27-31 28-32 30-34 33-34
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
13-18 13-19 27-31 28-32 30-34 33-34
exact bonds :
5-8 11-14 13-14 14-15 15-16 24-25
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 16-17 16-20

G1:H,X,CN,NO2,[*1],[*2],[*3],[*4]

G2:H,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 22:CLASS 23:Atom 24:CLASS

25:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS

10/569812 MMP SUCCINATE DERIVATIVES

=> D HIS

(FILE 'HOME' ENTERED AT 16:07:36 ON 30 AUG 2007)

FILE 'REGISTRY' ENTERED AT 16:07:49 ON 30 AUG 2007
L1 STRUCTURE UPLOADED
L2 0 S L1
L3 3 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 16:09:11 ON 30 AUG 2007
L4 1 S L3
L5 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 16:11:08 ON 30 AUG 2007
L6 0 S L5
L7 6 S L5 SSS FULL
L8 6 S 845786-21-2/RN OR 845786-19-8/RN OR 845786-18-7/RN OR 845

FILE 'HCAPLUS' ENTERED AT 16:13:43 ON 30 AUG 2007
L9 1 S L8

FILE 'STNGUIDE' ENTERED AT 16:15:14 ON 30 AUG 2007

10/569812 MMP SUCCINATE DERIVATIVES

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAMLL1621

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAY 01	New CAS web site launched
NEWS 3	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 7	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 8	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 9	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10	JUN 29	STN Viewer now available
NEWS 11	JUN 29	STN Express, Version 8.2, now available
NEWS 12	JUL 02	LEMBASE coverage updated
NEWS 13	JUL 02	LMEDLINE coverage updated
NEWS 14	JUL 02	SCISEARCH enhanced with complete author names
NEWS 15	JUL 02	CHEMCATS accession numbers revised
NEWS 16	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 17	JUL 16	CAplus enhanced with French and German abstracts
NEWS 18	JUL 18	CA/CAplus patent coverage enhanced
NEWS 19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20	JUL 30	USGENE now available on STN
NEWS 21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 22	AUG 06	BEILSTEIN updated with new compounds
NEWS 23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 24	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 25	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 26	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 27	AUG 27	USPATOLD now available on STN
NEWS 28	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:07:36 ON 30 AUG 2007

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:07:49 ON 30 AUG 2007
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STRUCTURE FILE UPDATES: 29 AUG 2007 HIGHEST RN 945828-45-5
DICTIONARY FILE UPDATES: 29 AUG 2007 HIGHEST RN 945828-45-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\2007 cases\10569812\updated search - claim 1 generic.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 16:08:23 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       23 TO ITERATE

100.0% PROCESSED       23 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          173 TO      747
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

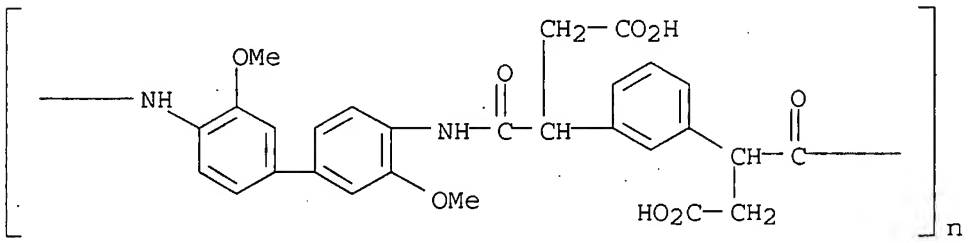
=> s l1 sss full
FULL SEARCH INITIATED 16:08:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      413 TO ITERATE

100.0% PROCESSED      413 ITERATIONS                                  3 ANSWERS
SEARCH TIME: 00.00.01

L3            3 SEA SSS FUL L1

=> d l3 1-3 ide

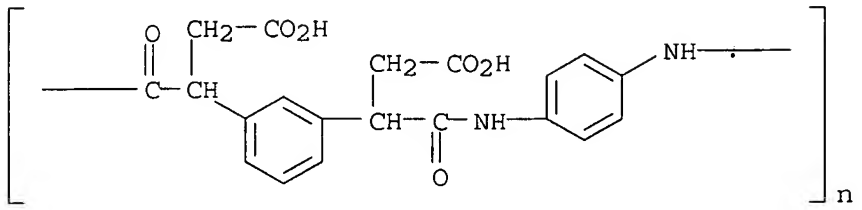
L3   ANSWER 1 OF 3  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   107039-94-1  REGISTRY
ED   Entered STN:  14 Mar 1987
CN   Poly[imino(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)imino[2-(carboxymethyl)-
     1-oxo-1,2-ethanediyl]-1,3-phenylene[1-(carboxymethyl)-2-oxo-1,2-
     ethanediyl]] (9CI)  (CA INDEX NAME)
MF   (C28 H26 N2 O8)n
CI   PMS
PCT  Polyamide
SR   CA
LC   STN Files:   CA, CAPLUS
```




```
              1 REFERENCES IN FILE CA (1907 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

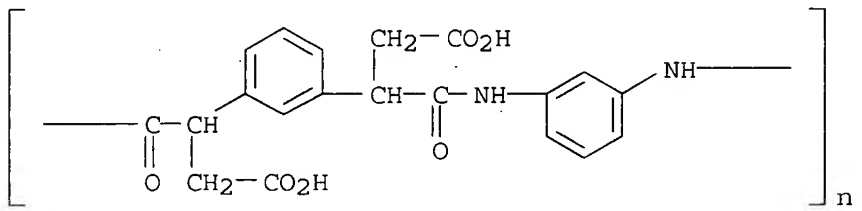
L3   ANSWER 2 OF 3  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   107039-93-0  REGISTRY
ED   Entered STN:  14 Mar 1987
CN   Poly[imino-1,4-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,3-
     phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI)  (CA INDEX NAME)
MF   (C20 H18 N2 O6)n
```

CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107039-92-9 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino-1,3-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,3-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C20 H18 N2 O6)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file hcaplu

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.40	178.61

FILE 'HCAPLUS' ENTERED AT 16:09:11 ON 30 AUG 2007
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FILE COVERS 1907 - 30 Aug 2007 VOL 147 ISS 10
FILE LAST UPDATED: 29 Aug 2007 (20070829/ED)

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d his

(FILE 'HOME' ENTERED AT 16:07:36 ON 30 AUG 2007)

FILE 'REGISTRY' ENTERED AT 16:07:49 ON 30 AUG 2007
L1 STRUCTURE UPLOADED
L2 0 S L1
L3 3 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 16:09:11 ON 30 AUG 2007

=> s l3
L4 1 L3

=> d l3 ibib abs
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> d l4 ibib abs

L4 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:102756 HCAPLUS
DOCUMENT NUMBER: 106:102756
TITLE: Aliphatic polyimides from phenylene bis(succinic anhydride) and bis(glutaric anhydride)
AUTHOR(S): Teshirogi, Takuma
CORPORATE SOURCE: Macromol. Res. Lab., Yamagata Univ., Yonezawa, 992, Japan
SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1987), 25(1), 31-6
CODEN: JPACEC; ISSN: 0887-624X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB m- And p-derivs. of phenylene bis(succinic anhydride) and bis(glutaric anhydride) were obtained from 1,3- [77104-43-9] and 1,4-bis(β-cyano-β-carbethoxyvinyl)benzene [47375-13-3] with KCN or Meldrum's acid followed by hydrolysis with concentrated HCl and dehydration with Ac2O. Aliphatic polyimides were prepared from these anhydrides with 6 aromatic diamines through thermal ring closure of polyamic acids obtained by solution polymerization in AcNMe2, and thermal stability of these polyimides was examined by thermogravimetric anal.

```
=>
Uploading C:\Program Files\Stnexp\Queries\2007 cases\10569812\Formula(Ia) cl5.str

L5      STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> file teg
'TEG' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'HCAPLUS'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available.  If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      10.63     189.24

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -0.78      -0.78

FILE 'REGISTRY' ENTERED AT 16:11:08 ON 30 AUG 2007
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STRUCTURE FILE UPDATES:   29 AUG 2007  HIGHEST RN 945828-45-5
DICTIONARY FILE UPDATES:  29 AUG 2007  HIGHEST RN 945828-45-5

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> s l5
SAMPLE SEARCH INITIATED 16:11:16 FILE 'REGISTRY'
```

SAMPLE SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 93 TO 587
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

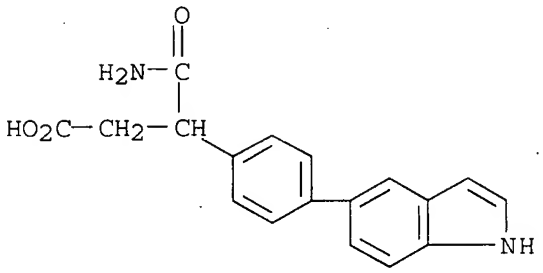
=> s l5 sss full
FULL SEARCH INITIATED 16:11:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 362 TO ITERATE

100.0% PROCESSED 362 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

L7 6 SEA SSS FUL L5

=> d l7 ide 1-6

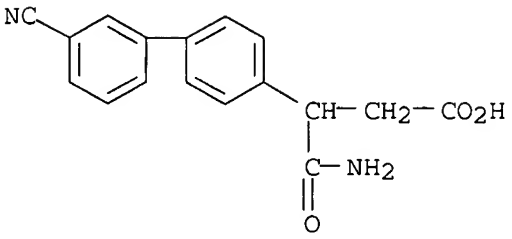
L7 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-21-2 REGISTRY
ED Entered STN: 17 Mar 2005
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(1H-indol-5-yl)- (9CI) (CA INDEX NAME)
MF C18 H16 N2 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

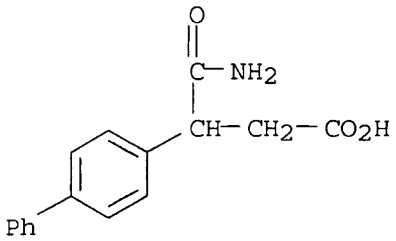
L7 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-19-8 REGISTRY
ED Entered STN: 17 Mar 2005
CN [1,1'-Biphenyl]-4-propanoic acid, β-(aminocarbonyl)-3'-cyano- (9CI) (CA INDEX NAME)
MF C17 H14 N2 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

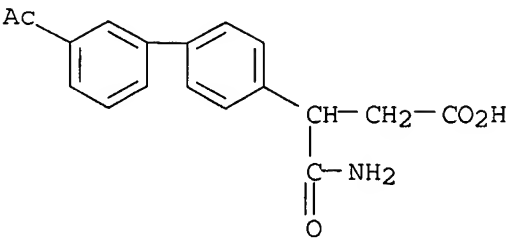
L7 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-18-7 REGISTRY
ED Entered STN: 17 Mar 2005
CN [1,1'-Biphenyl]-4-propanoic acid, β-(aminocarbonyl)- (9CI) (CA INDEX NAME)
MF C16 H15 N O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

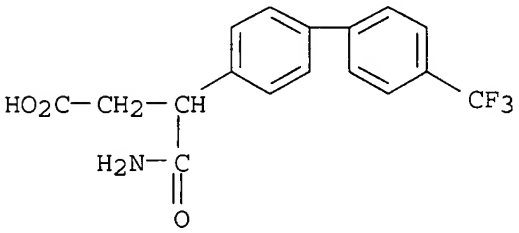
L7 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-17-6 REGISTRY
ED Entered STN: 17 Mar 2005
CN [1,1'-Biphenyl]-4-propanoic acid, 3'-acetyl-β-(aminocarbonyl)- (9CI) (CA INDEX NAME)
MF C18 H17 N O4
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

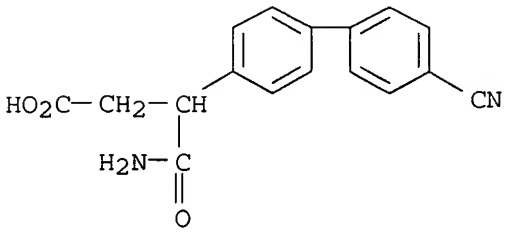
L7 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-16-5 REGISTRY
ED Entered STN: 17 Mar 2005
CN [1,1'-Biphenyl]-4-propanoic acid, β-(aminocarbonyl)-4'-(trifluoromethyl)- (9CI) (CA INDEX NAME)
MF C17 H14 F3 N O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-15-4 REGISTRY
ED Entered STN: 17 Mar 2005
CN [1,1'-Biphenyl]-4-propanoic acid, β-(aminocarbonyl)-4'-cyano- (9CI) (CA INDEX NAME)
MF C17 H14 N2 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
=> d his

     (FILE 'HOME' ENTERED AT 16:07:36 ON 30 AUG 2007)

     FILE 'REGISTRY' ENTERED AT 16:07:49 ON 30 AUG 2007
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           3 S L1 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 16:09:11 ON 30 AUG 2007
L4           1 S L3
L5             STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 16:11:08 ON 30 AUG 2007
L6           0 S L5
L7           6 S L5 SSS FULL

=> d l7 rn

L7   ANSWER 1 OF 6  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   845786-21-2  REGISTRY


=> d l7 rn 1-6

L7   ANSWER 1 OF 6  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   845786-21-2  REGISTRY

L7   ANSWER 2 OF 6  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   845786-19-8  REGISTRY

L7   ANSWER 3 OF 6  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   845786-18-7  REGISTRY

L7   ANSWER 4 OF 6  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   845786-17-6  REGISTRY

L7   ANSWER 5 OF 6  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   845786-16-5  REGISTRY

L7   ANSWER 6 OF 6  REGISTRY  COPYRIGHT 2007 ACS on STN
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RN 845786-15-4 REGISTRY

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=> fil hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	186.69	375.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.78

FILE 'HCAPLUS' ENTERED AT 16:13:43 ON 30 AUG 2007
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FILE COVERS 1907 - 30 Aug 2007 VOL 147 ISS 10
FILE LAST UPDATED: 29 Aug 2007 (20070829/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L9 1 L8

=> d l9 ibib abs

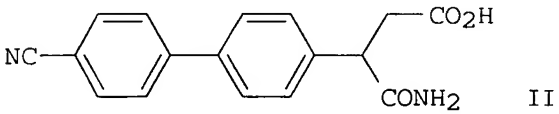
L9 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:158625 HCAPLUS
DOCUMENT NUMBER: 142:261292
TITLE: Preparation of (hetero)aryl-substituted succinate derivatives as matrix metalloproteinase inhibitors
INVENTOR(S): Holmes, Ian; Watson, Stephen Paul

10/569812 MMP SUCCINATE DERIVATIVES

PATENT ASSIGNEE(S): Glaxo Group Limited, UK
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005016868	A2	20050224	WO 2004-EP9087	20040812
WO 2005016868	A3	20050519		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1654218	A2	20060510	EP 2004-764084	20040812
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR				
JP 2007502259	T	20070208	JP 2006-522996	20040812
US 2006235074	A1	20061019	US 2006-569812	20060210
PRIORITY APPLN. INFO.:			GB 2003-19069 A	20030814
			WO 2004-EP9087 W	20040812

OTHER SOURCE(S): CASREACT 142:261292; MARPAT 142:261292
GI



II

AB Title compds. represented by the formula I, R1ZQCH(R2)CH2X, [wherein R1 = (un)substituted alkyl(cycloalkyl), alkylheterocycloalkyl, alkylaryl, etc.; Z = a bond, CH2, O, S, etc.; Q = (un)substituted (hetero)aryl; X = COR3; R2 = CONH2, CO2H, sulfonylamino, etc.; R3 = OH, oxyalkyl or (un)substituted amino; with a proviso; and physiol. functional derivs. thereof] were prepared as matrix metalloproteinase (MMP) inhibitors. Coupling reaction of 4-amino-3-(4-bromophenyl)-4-oxobutanoic acid with p-nitrilephenylboronic acid gave II in 100% yield. I showed inhibition of MMP-12 with IC50 values of below 100 μM. Thus, I and their pharmaceutical compns. are useful as matrix metalloproteinase inhibitors for the treatment of inflammation or autoimmune disease (no data).

=> fil stng

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.63	386.56

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                  -0.78      -1.56

FILE 'STNGUIDE' ENTERED AT 16:15:14 ON 30 AUG 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 24, 2007 (20070824/UP).

=> D HIS

     (FILE 'HOME' ENTERED AT 16:07:36 ON 30 AUG 2007)

     FILE 'REGISTRY' ENTERED AT 16:07:49 ON 30 AUG 2007
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           3 S L1 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 16:09:11 ON 30 AUG 2007
L4           1 S L3
L5             STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 16:11:08 ON 30 AUG 2007
L6           0 S L5
L7           6 S L5 SSS FULL
L8           6 S  845786-21-2/RN OR  845786-19-8/RN OR  845786-18-7/RN OR  845

     FILE 'HCAPLUS' ENTERED AT 16:13:43 ON 30 AUG 2007
L9           1 S L8

     FILE 'STNGUIDE' ENTERED AT 16:15:14 ON 30 AUG 2007
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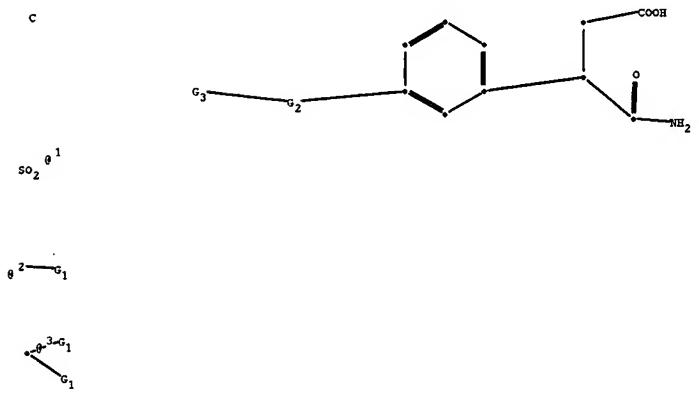

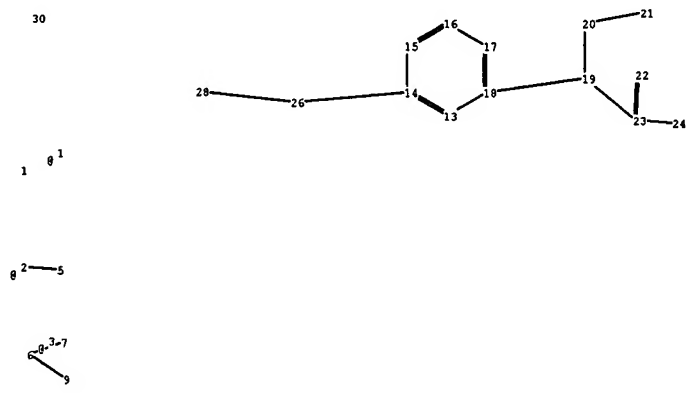

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ring nodes :
13 14 15 16 17 18
chain bonds :
2-5 6-7 6-9 14-26 18-19 19-20 19-23 20-21 22-23 23-24 26-28
ring bonds :
13-14 13-18 14-15 15-16 16-17 17-18
exact/norm bonds :
2-5 6-7 6-9 14-26 22-23 23-24 26-28
exact bonds :
18-19 19-20 19-23 20-21
normalized bonds :
13-14 13-18 14-15 15-16 16-17 17-18

G1:H,CH3,CH2,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph,Cy

G2:CH2,O,S,[*1],[*2],[*3]

G3:Cb,Cy,Hy,Ak

Match level :

1:CLASS 2:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 26:CLASS 28:CLASS 30:CLASS